

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 501.37465CC9	APPLICATION NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT TANABE, et al.	
		FILING DATE February 10, 2004	EXPECTED GROUP 2829

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	2001/0042344	11/22/2001	Ohmi, et al.	—	—	—
AB	5,959,329	9/28/1999	Tomita, et al.	—	—	—

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation/ Abstract	
						Yes	No
DV	AC	08-213379	8/20/1996	Japan	—	X	
	AD	11-067747	3/9/1999	Japan	—	X	
	AE	11-074264	3/16/1999	Japan	—	X	
	AF	10-284484	10/23/1998	Japan	—	X	
	AG	11-162971	6/18/1999	Japan	—	X	
	AH	11-162970	6/18/1999	Japan	—	X	
	AI	11-204517	7/30/1999	Japan	—	X	
	AJ	11-186255	7/9/1999	Japan	—	X	
	AK	11-135492	5/21/1999	Japan	—	X	
	AL	9-153489	6/10/1997	Japan	—	X	
	AM	11-233508	8/27/1999	Japan	—	X	
	AN	11-186248	7/9/1999	Japan	—	X	
	AO	07-297201	11/10/1995	Japan	—	X	
	AP	07-297181	11/10/1995	Japan	—	X	
↓	AQ	07-273101	10/20/1995	Japan	—	X	
DV	AS	9-148461	6/6/1997	Japan	—	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
Examiner <i>Shuland</i>	Date Considered 02/04/05

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 501.37465C9	APPLICATION NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT TANABE, et al.	
		FILING DATE February 10, 2004	EXPECTED GROUP 2829

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
DV	AA 6,037,273	3/00	Gronet, et al.			
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
DV	AM 7-86264	3/95	Japan				X
	AN 7-193059	7/95	Japan			X	
	AO 5-114740	5/93	Japan			X	
	AP 7-321102	12/95	Japan			X	
	AQ 60-107840	6/85	Japan			X	
	AR 5-141871	6/93	Japan			X	
	AS 5-144804	6/93	Japan			X	
	AT 6-120206	4/94	Japan			X	
	AU 59-132136	7/84	Japan			X	
DV	AV WO/9728085	7/97	PCT			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AW	
	AV	
	AW	
	AX	
	AY	
	AZ	
Examiner	<i>Shuland</i>	Date Considered 02/04/05

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. 501.37465CC9	APPLICATION NO. TBD
	APPLICANT TANABE, et al.	
	FILING DATE February 10, 2004	EXPECTED GROUP 2829

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclasses	Filing Date
DV	AA	6,362,086	3-26-02	Weimer, et al.		
	AB	5,751,025	5/98	Heminger, et al.		
	AC	4,139,658	2/79	Cohen, et al.		
	AD	5,693,578	12/97	Nakanishi, et al.		
	AE	5,880,041	3/99	Ong		
	AF	5,851,892	12/98	Lojek, et al.		
	AG	5,840,368	11/98	Ohmi		
	AH	5,786,263	7/98	Perera		
DV	AI	6,239,041	5/01	Tanabe, et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclasses	Translation/Abstract	
						Yes	No
DV	AJ	7-115069	5-2-95	Japan		X	
	AK	9-172011	6/97	Japan		X	
	AL	6-333918	12/94	Japan		X	
	AM	7-10935	2/95	Japan			X
	AN	7-115069	5/95	Japan			X
	AO	5-152282	6/93	Japan		X	
	AP	6-163517	6/94	Japan		X	
	AQ	6-115903	4/94	Japan		X	
DV	AR	8-111449	4/96	Japan			X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AS	Nakamura, et al., "Proceedings of the 45 th Symposium on Semiconductors and Integrated Circuits Technology", December 1-2, 1993. (full translation)				
DV	AT	Tanabe, et al., PG Pub: US 2002/0004315 A1, 1/10/02				
	AU	Tanabe, et al., PG Pub: US 2002/0019149 A1, 2/14/02				
	AV	Tanabe, et al., PG Pub: US 2001/0009813 A1, 7/26/01				
	AW	Tanabe, et al., PG Pub: US 2001/0010975 A1, 8/2/01				
	AX	Tanabe, et al., PG Pub: US 2001/0024870 A1, 9/27/01				
DV	AY	Tanabe, et al., PG Pub: US 2001/0006853 A1, 7/5/01				
Examiner <i>Shindland</i>				Date Considered <i>02/04/05</i>		

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 501.37465CC9	APPLICATION NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT TANABE, et al.	
		FILING DATE February 10, 2004	EXPECTED GROUP 2829

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
DV	AA	4,374,116	2/15/1983	Chuang, et al.		
DV	AB	4,119,706	10/10/1978	Rogers		
DV	AC	3,857,927	12/31/1974	Henrie		

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation/A bstract	
						Yes	No
DV	AD	5-19746	3/12/1993	Japan			
	AE	63-85630	6/4/1988	Japan			
	AF	57-49895	3/24/1982	Japan			
	AG	58-19599	2/4/1983	Japan			
	AH	57-82102	5/22/1982	Japan		X	
	AI	55-041805	3/24/1980	Japan		X	
	AJ	55-003820	1/11/1980	Japan		X	
	AK	0 666 237	08/09/1995	EP			
	AL	09-148315	6/6/1997	Japan		X	
DV	AM	09-090092	4/4/1997	Japan		X	
	AN						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	Japanese Patent Office Action mailed May 16, 2000 for No. 3110456 with English translation
Examiner	Date Considered
<i>gindland</i>	02/04/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Filing Date	February 10, 2004
				First Named Inventor	Yoshikazu TANABE
				Art Unit	2829
				Examiner Name	Not yet assigned
Sheet	1	of	1	Attorney Docket Number	501.37465CC9

[illegible][illegible]

Examiner Signature	<i>Shuland</i>	Date Considered	02/04/05
--------------------	----------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.